

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122618\  
 Data File : BF111736.D  
 Acq On : 27 Dec 2018 1:35  
 Operator : JU/SJ  
 Sample : J6388-13  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 27 02:18:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 19 17:39:39 2018  
 Response via : Initial Calibration

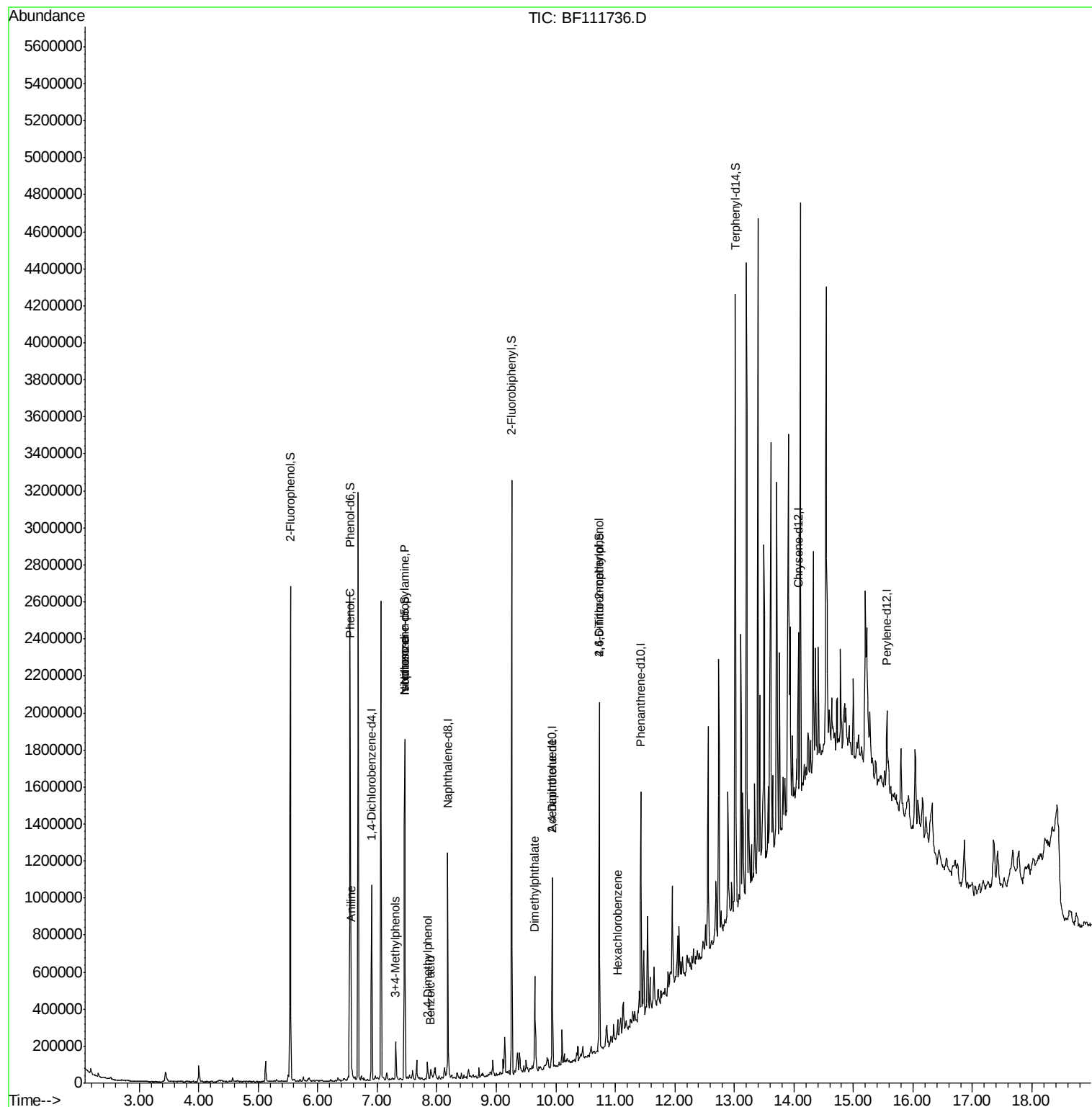
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)   |
|--------------------------------|-------|------|----------|--------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 139753   | 20.00  | ng    | 0.00       |
| 21) Naphthalene-d8             | 8.19  | 136  | 474770   | 20.00  | ng    | 0.00       |
| 39) Acenaphthene-d10           | 9.94  | 164  | 214070   | 20.00  | ng    | 0.00       |
| 64) Phenanthrene-d10           | 11.43 | 188  | 391319   | 20.00  | ng    | 0.01       |
| 76) Chrysene-d12               | 14.07 | 240  | 300969   | 20.00  | ng    | 0.02       |
| 87) Perylene-d12               | 15.56 | 264  | 229125   | 20.00  | ng    | 0.05       |
| System Monitoring Compounds    |       |      |          |        |       |            |
| 5) 2-Fluorophenol              | 5.54  | 112  | 687122   | 83.81  | ng    | 0.02       |
| 7) Phenol-d6                   | 6.55  | 99   | 843982   | 80.89  | ng    | 0.02       |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 516229   | 63.29  | ng    | 0.00       |
| 42) 2,4,6-Tribromophenol       | 10.73 | 330  | 225393   | 89.11  | ng    | 0.01       |
| 45) 2-Fluorobiphenyl           | 9.26  | 172  | 963051   | 65.57  | ng    | 0.00       |
| 79) Terphenyl-d14              | 13.02 | 244  | 937166   | 59.05  | ng    | 0.02       |
| Target Compounds               |       |      |          |        |       |            |
| 6) Aniline                     | 6.57  | 93   | 27323    | 2.054  | ng    | Qvalue # 1 |
| 10) Phenol                     | 6.56  | 94   | 200976   | 17.071 | ng    | 97         |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 70119    | 10.119 | ng    | # 76       |
| 20) 3+4-Methylphenols          | 7.31  | 107  | 53218    | 5.791  | ng    | # 59       |
| 25) Isophorone                 | 7.46  | 82   | 513682   | 35.475 | ng    | # 64       |
| 27) 2,4-Dimethylphenol         | 7.84  | 122  | 17271    | 2.527  | ng    | 93         |
| 32) Benzoic acid               | 7.90  | 122  | 11383    | 2.519  | ng    | 87         |
| 50) Dimethylphthalate          | 9.65  | 163  | 130880   | 8.361  | ng    | # 98       |
| 57) 2,4-Dinitrotoluene         | 9.94  | 165  | 28621    | 7.629  | ng    | # 25       |
| 65) 4,6-Dinitro-2-methylphenol | 10.73 | 198  | 519      | 6.969  | ng    | # 1        |
| 68) Hexachlorobenzene          | 11.04 | 284  | 11315    | 2.091  | ng    | 100        |

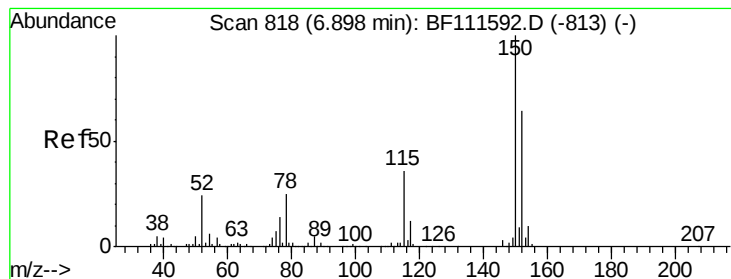
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122618\  
Data File : BF111736.D  
Acq On : 27 Dec 2018 1:35  
Operator : JU/SJ  
Sample : J6388-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 27 02:18:10 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 19 17:39:39 2018  
Response via : Initial Calibration



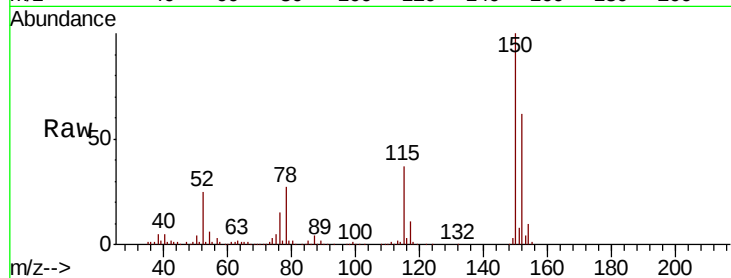


#1

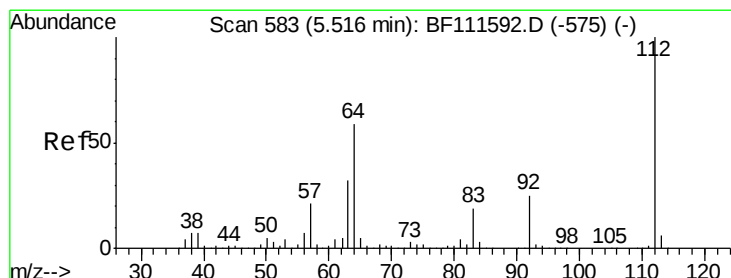
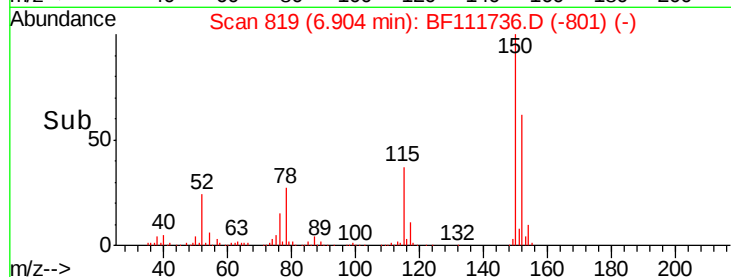
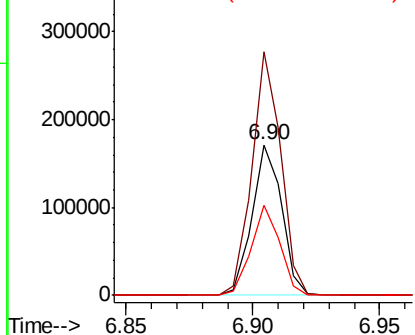
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 819  
Delta R.T. 0.01 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.8 | 126.6 | 189.8 |
| 115     | 59.6  | 50.7  | 76.1  |



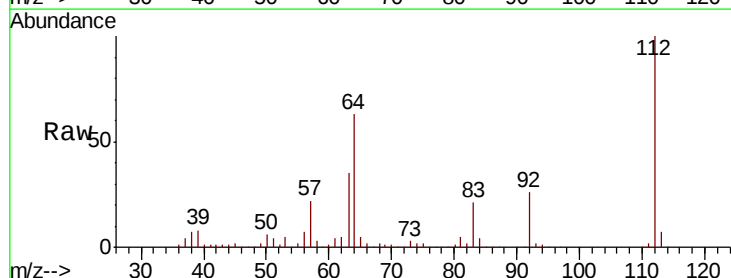
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



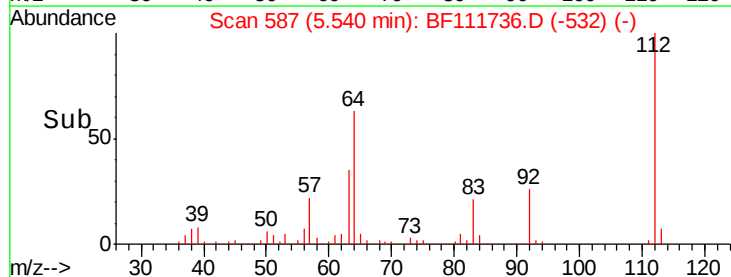
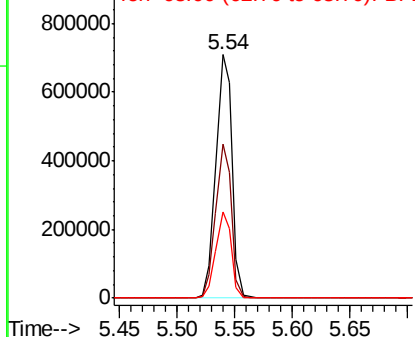
#5

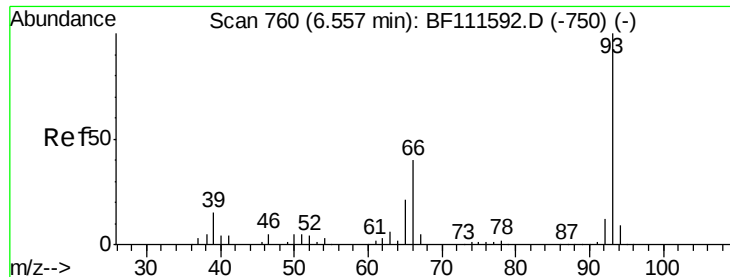
2-Fluorophenol  
Concen: 83.807 ng  
RT: 5.54 min Scan# 587  
Delta R.T. 0.02 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.4  | 51.8  | 77.6  |
| 63      | 35.3  | 26.8  | 40.2  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#6

Aniline

Concen: 2.054 ng

RT: 6.57 min Scan# 762

Delta R.T. 0.01 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

Instrument :

BNA\_F

ClientSampleId :

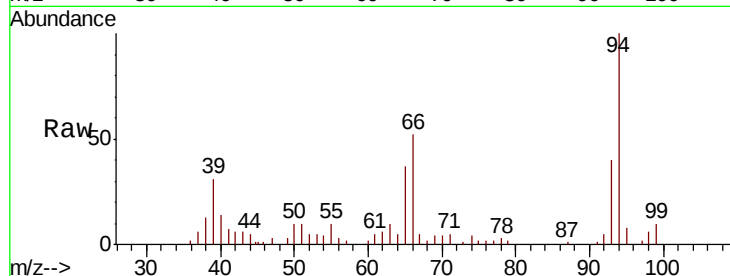
Tot Ion: 93 Resp: 27323

Ion Ratio Lower Upper

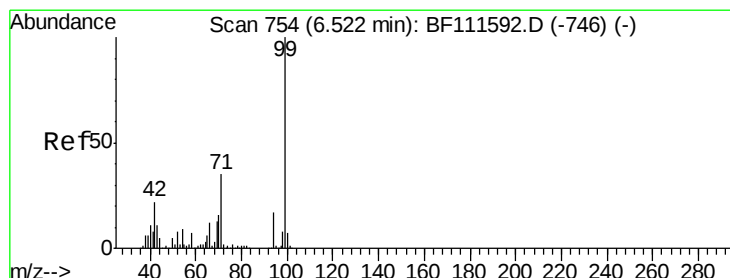
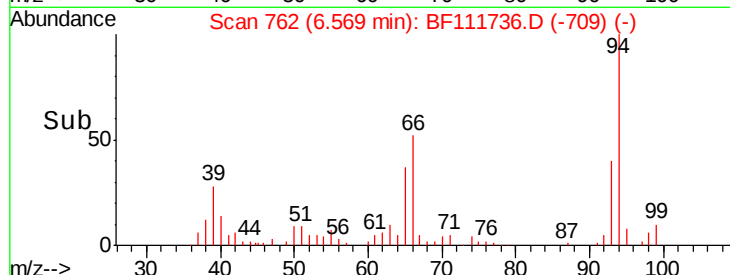
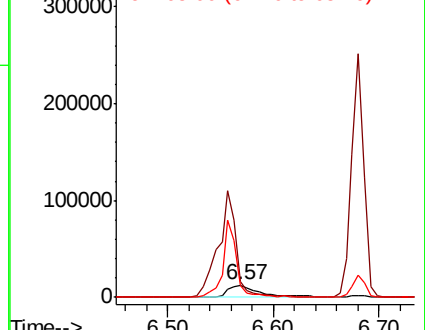
93 100

66 129.5 33.2 49.8#

65 90.9 17.0 25.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1



#7

Phenol-d6

Concen: 80.885 ng

RT: 6.55 min Scan# 758

Delta R.T. 0.02 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

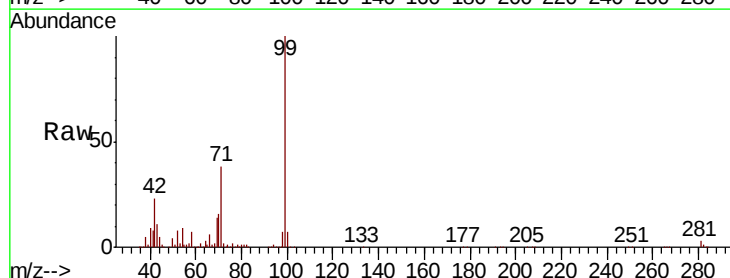
Tgt Ion: 99 Resp: 843982

Ion Ratio Lower Upper

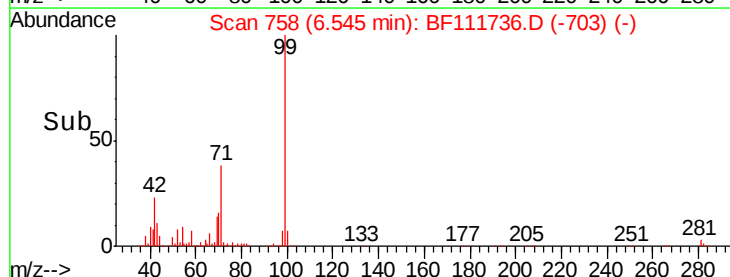
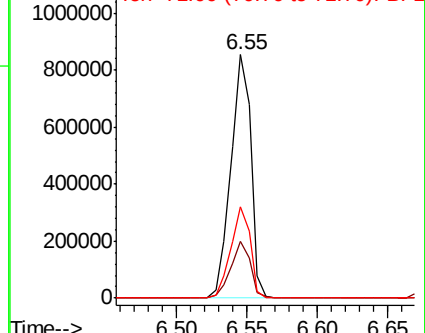
99 100

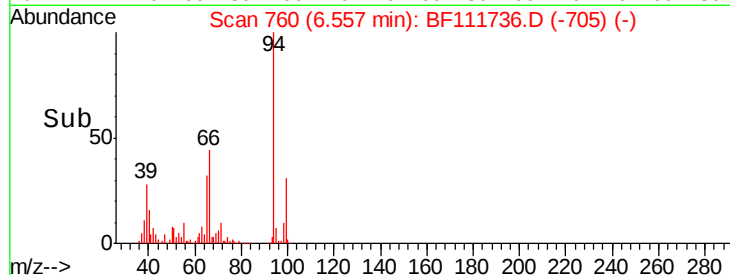
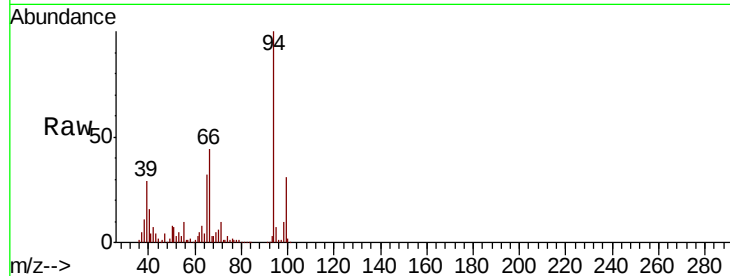
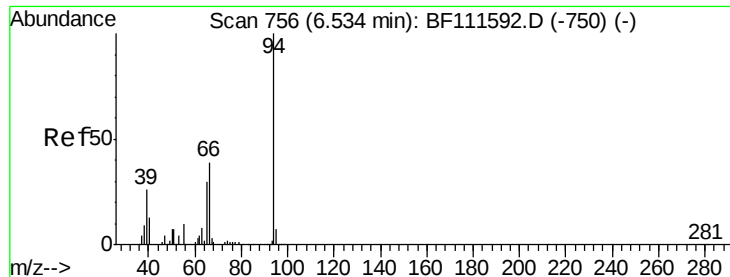
42 23.3 17.4 26.0

71 37.6 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1





#10

Phenol

Concen: 17.071 ng

RT: 6.56 min Scan# 760

Delta R.T. 0.02 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

Instrument :

BNA\_F

ClientSampleId :

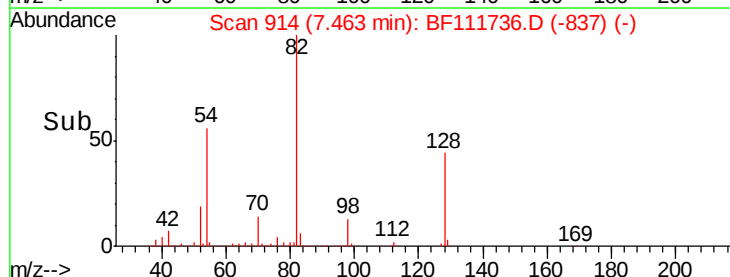
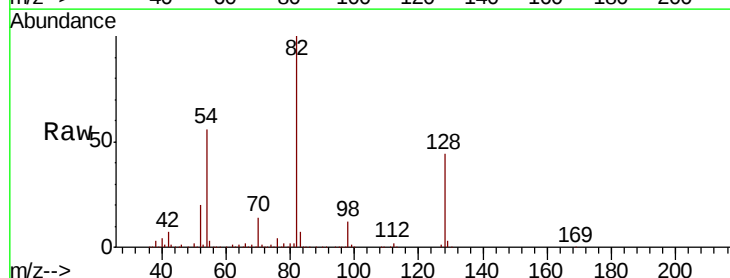
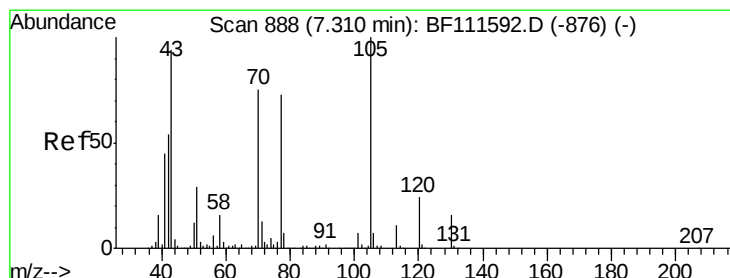
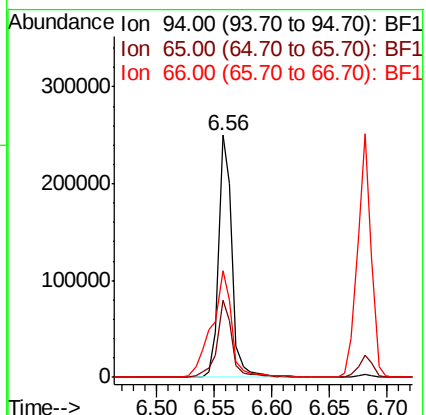
Tot Ion: 94 Resp: 200976

Ion Ratio Lower Upper

94 100

65 31.9 11.7 51.7

66 43.9 21.0 61.0



#19

n-Nitroso-di-n-propylamine

Concen: 10.119 ng

RT: 7.46 min Scan# 914

Delta R.T. 0.15 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

Tgt Ion: 70 Resp: 70119

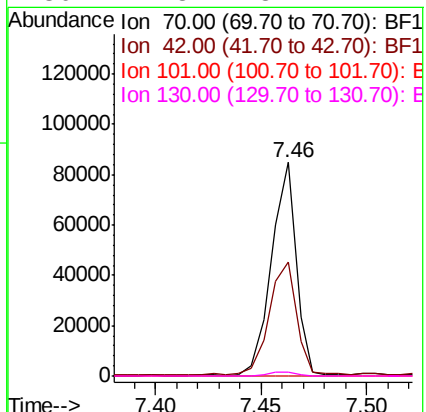
Ion Ratio Lower Upper

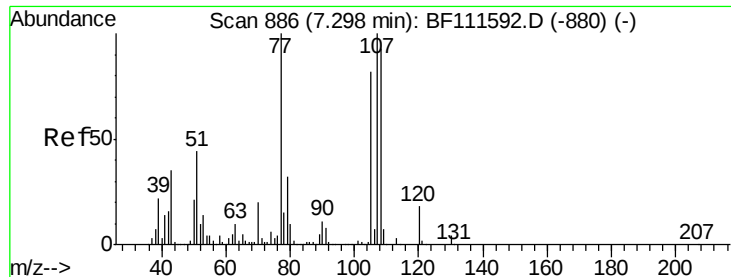
70 100

42 53.2 53.2 79.8

101 0.0 8.2 12.4#

130 1.8 18.1 27.1#





#20

3+4-Methylphenols

Concen: 5.791 ng

RT: 7.31 min Scan# 888

Delta R.T. 0.01 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:107 Resp: 53218

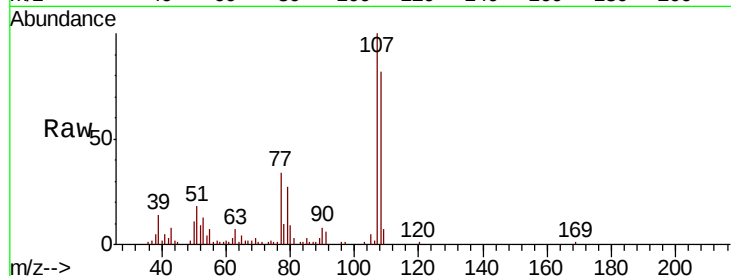
Ion Ratio Lower Upper

107 100

108 81.9 72.1 112.1

77 33.9 94.1 134.1#

79 27.2 9.8 49.8

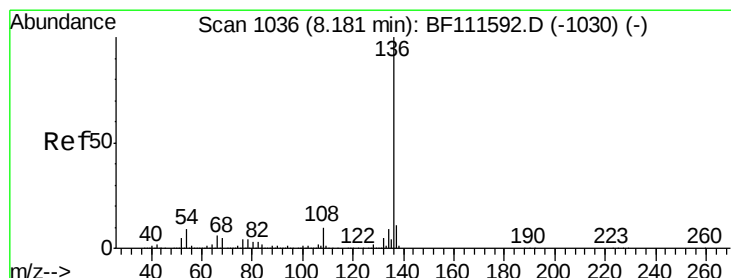
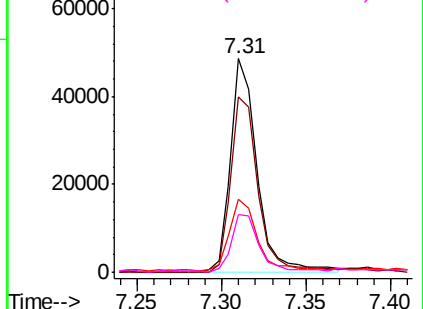
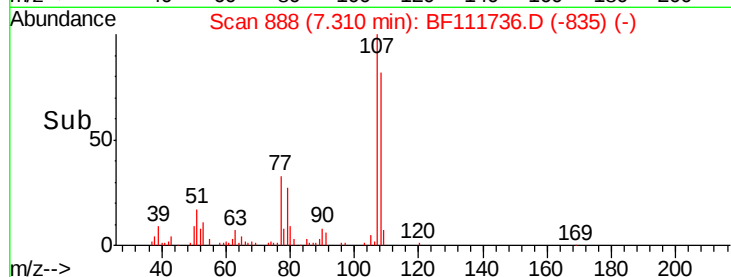


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.19 min Scan# 1037

Delta R.T. 0.01 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

Tgt Ion:136 Resp: 474770

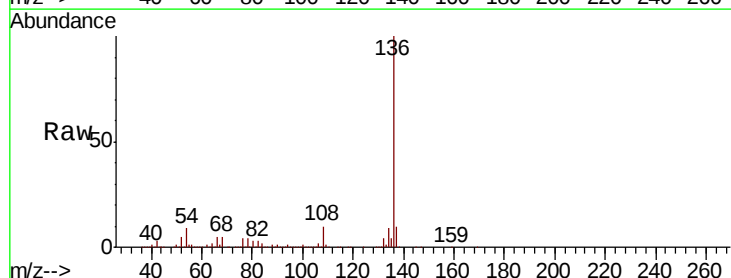
Ion Ratio Lower Upper

136 100

137 10.5 9.1 13.7

54 8.8 7.7 11.5

68 5.4 4.9 7.3

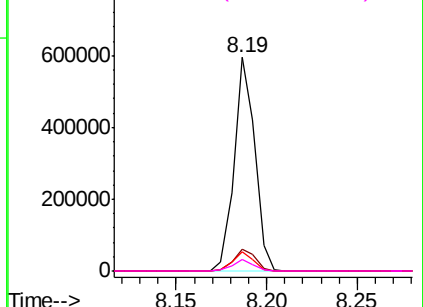
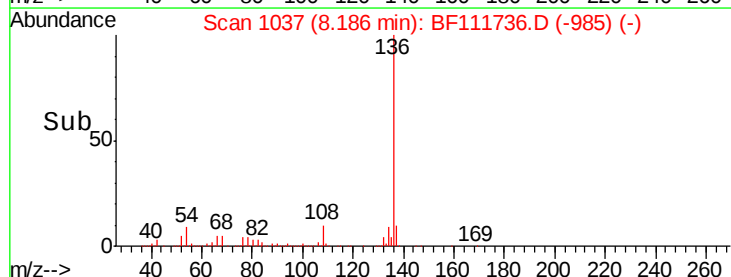


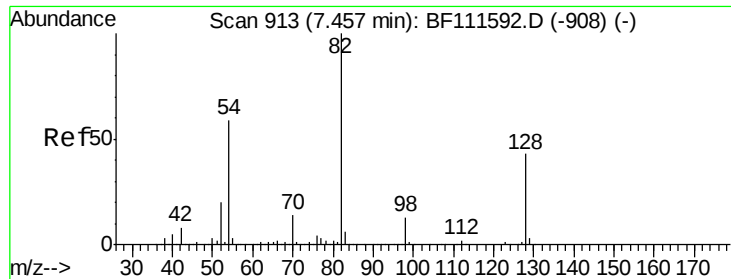
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

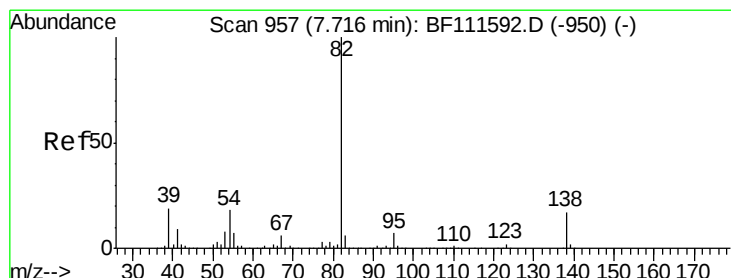
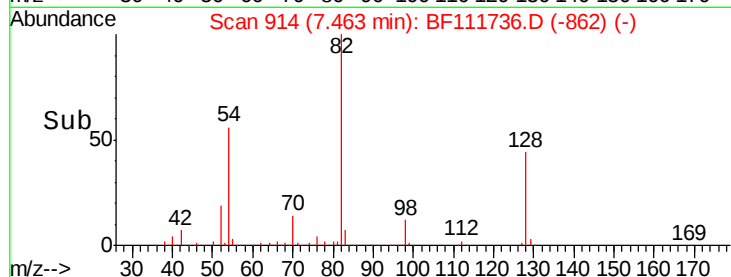
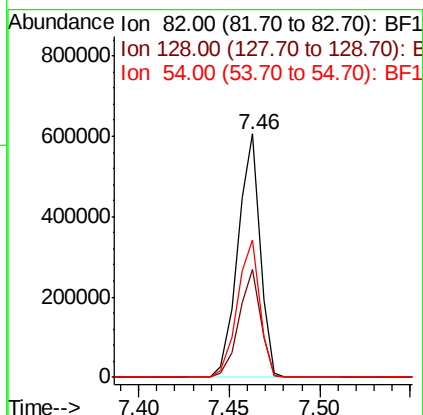
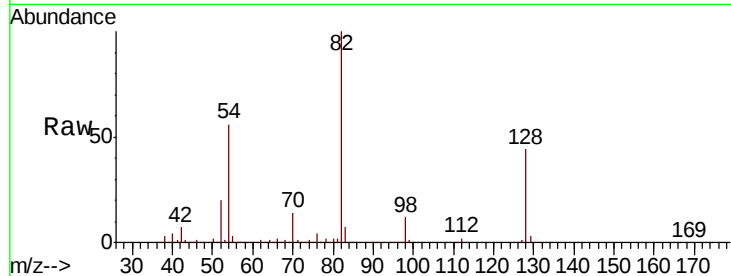




#23  
 Nitrobenzene-d5  
 Concen: 63.291 ng  
 RT: 7.46 min Scan# 914  
 Delta R.T. 0.01 min  
 Lab File: BF111736.D  
 Acq: 27 Dec 2018 1:35

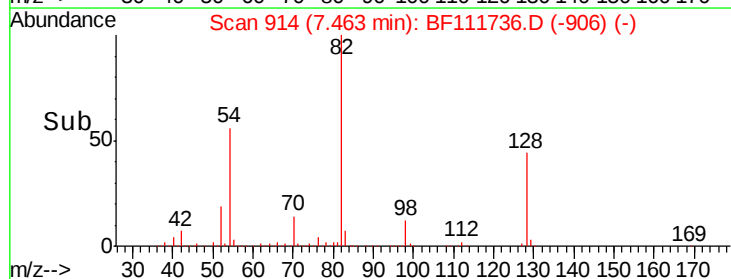
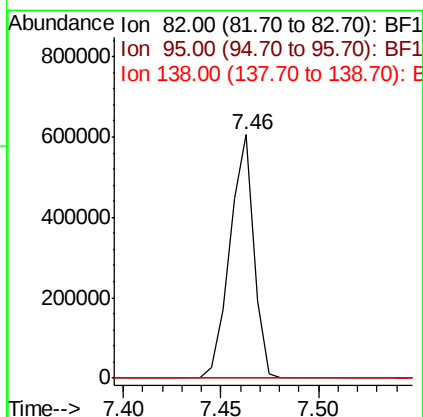
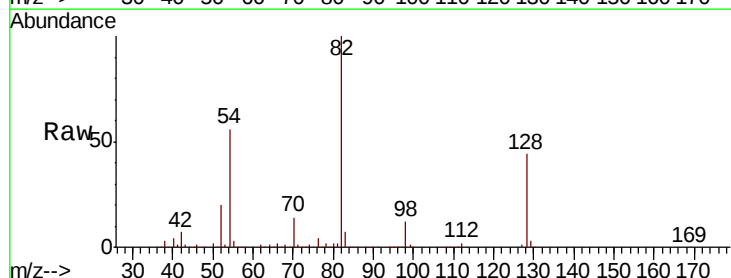
Instrument :  
 BNA\_F  
 ClientSampleId :

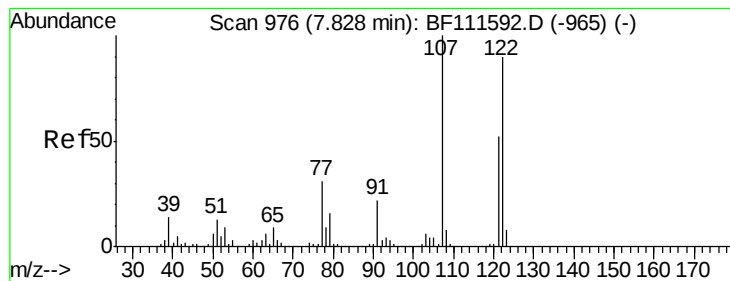
| Tot Ion   | 82    | Resp  | 516229 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.1  | 37.4  | 56.2   |
| 54        | 56.4  | 47.6  | 71.4   |



#25  
 Isophorone  
 Concen: 35.475 ng  
 RT: 7.46 min Scan# 914  
 Delta R.T. -0.25 min  
 Lab File: BF111736.D  
 Acq: 27 Dec 2018 1:35

| Tgt Ion   | 82    | Resp  | 513682 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.1   | 5.4   | 8.2#   |
| 138       | 0.0   | 15.1  | 22.7#  |





#27

2,4-Dimethylphenol

Concen: 2.527 ng

RT: 7.84 min Scan# 978

Delta R.T. 0.01 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :

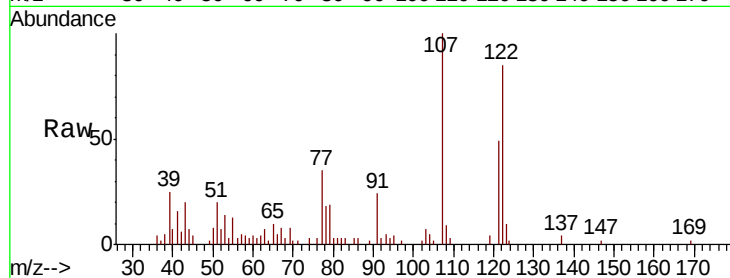
Tot Ion:122 Resp: 17271

Ion Ratio Lower Upper

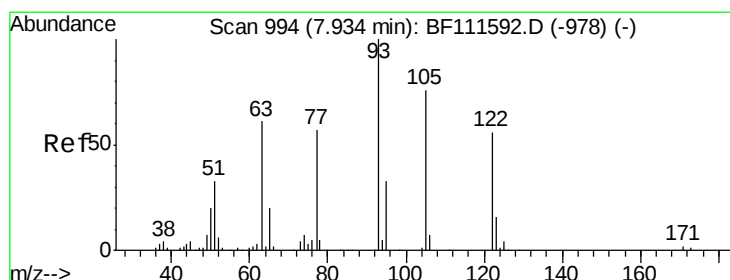
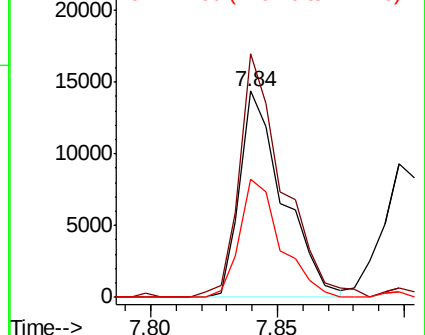
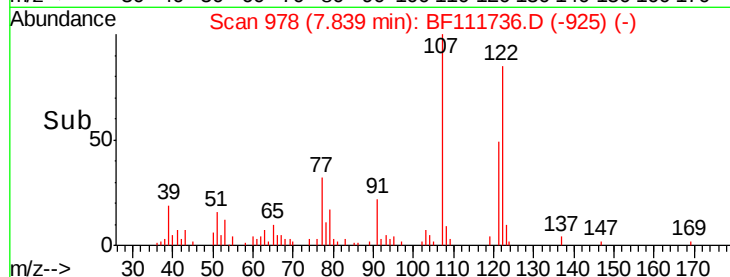
122 100

107 118.1 85.5 128.3

121 57.5 46.6 70.0



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E



#32

Benzoic acid

Concen: 2.519 ng

RT: 7.90 min Scan# 988

Delta R.T. -0.04 min

Lab File: BF111736.D

Acq: 27 Dec 2018 1:35

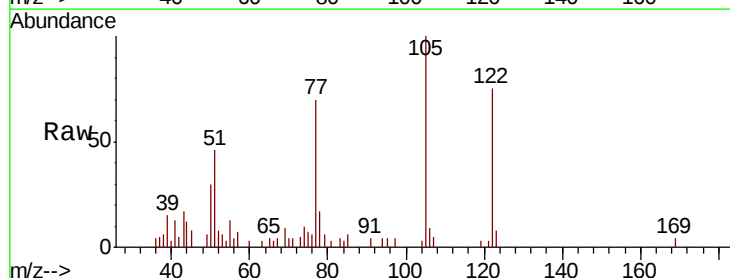
Tgt Ion:122 Resp: 11383

Ion Ratio Lower Upper

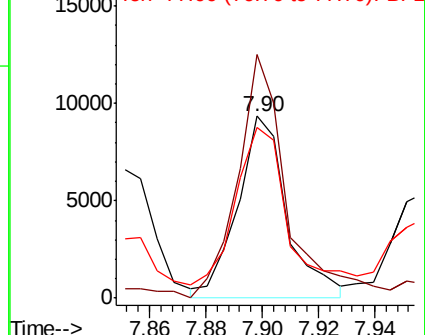
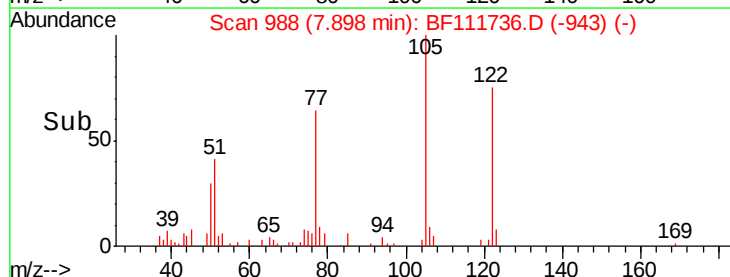
122 100

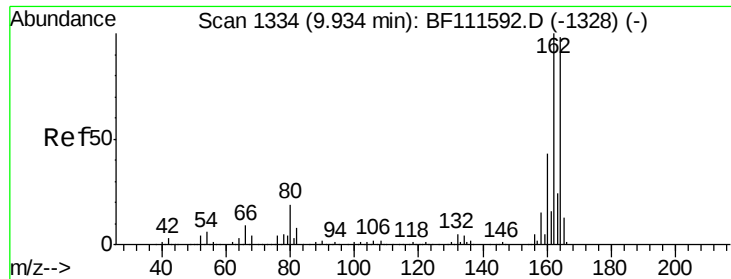
105 133.9 97.0 137.0

77 93.7 65.7 105.7



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1

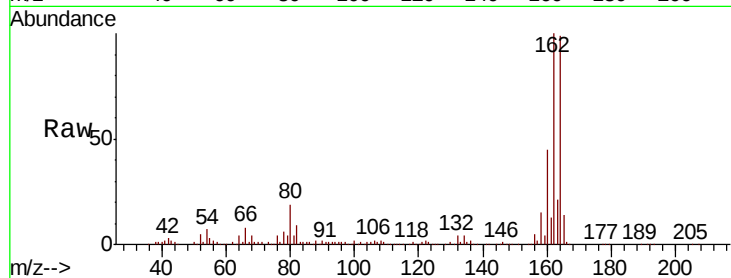




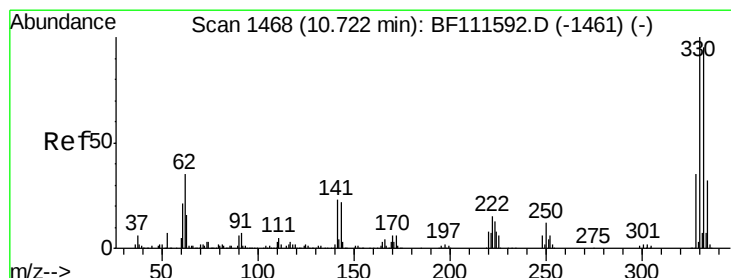
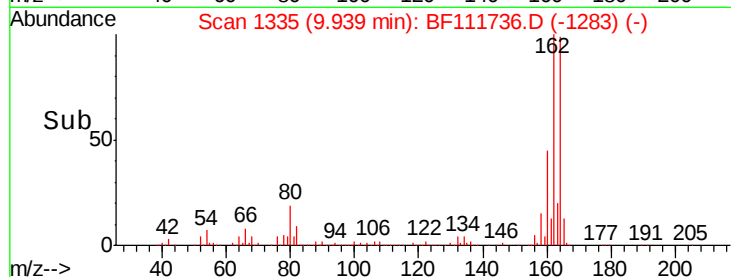
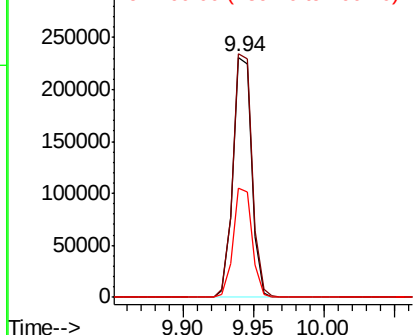
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. 0.01 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 214070  
Ion Ratio Lower Upper  
164 100  
162 101.5 81.4 122.0  
160 45.3 35.7 53.5

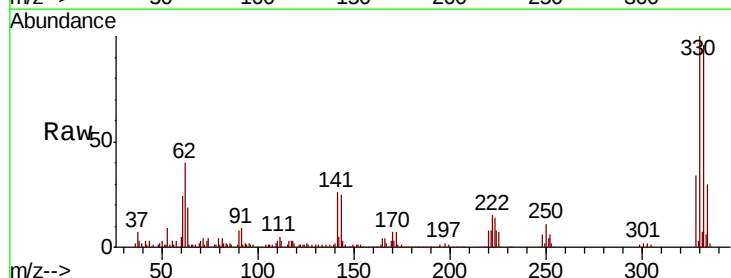


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

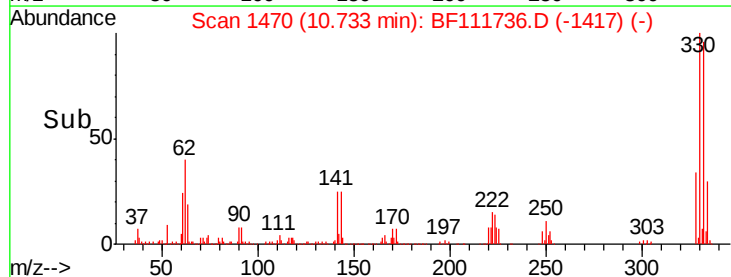
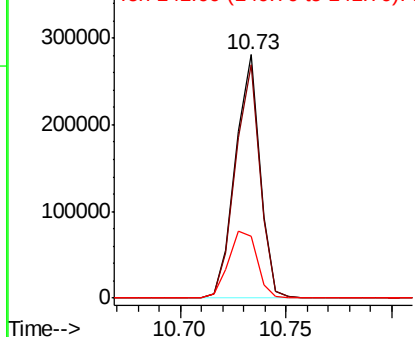


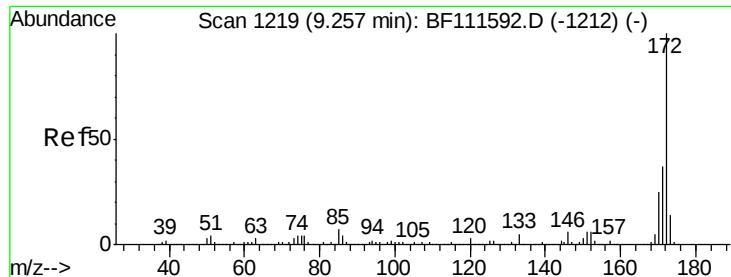
#42  
2,4,6-Tribromophenol  
Concen: 89.109 ng  
RT: 10.73 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Tgt Ion:330 Resp: 225393  
Ion Ratio Lower Upper  
330 100  
332 96.0 76.0 114.0  
141 31.7 31.0 46.6



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

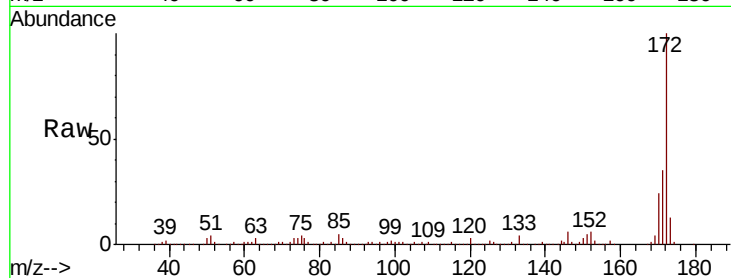




#45  
2-Fluorobiphenyl  
Concen: 65.573 ng  
RT: 9.26 min Scan# 1220  
Delta R.T. 0.01 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.0  | 33.0  | 49.4  |
| 170     | 23.6  | 22.3  | 33.5  |

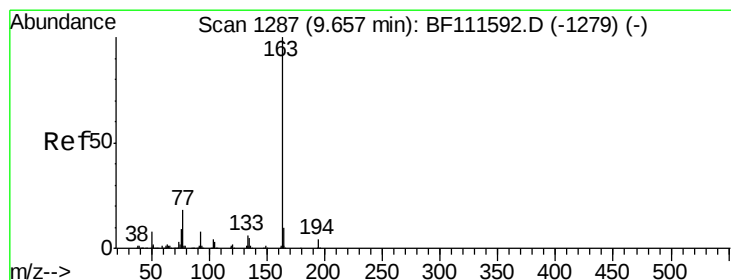
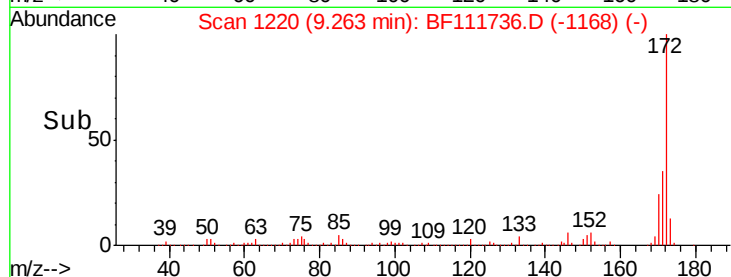
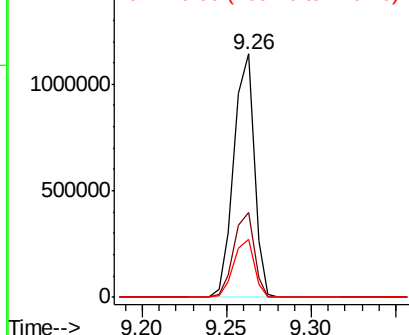


Abundance

Ion 172.00 (171.70 to 172.70): E

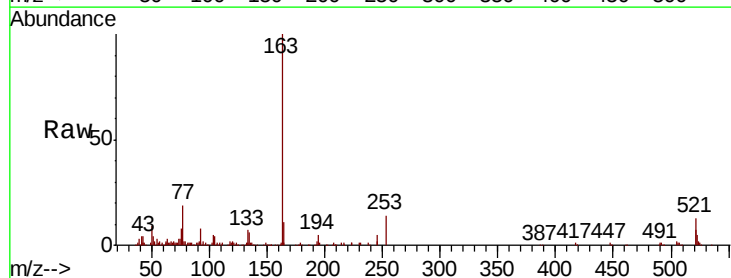
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 8.361 ng  
RT: 9.65 min Scan# 1286  
Delta R.T. -0.01 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.2   | 3.0   | 4.6#  |
| 164     | 10.7  | 8.9   | 13.3  |

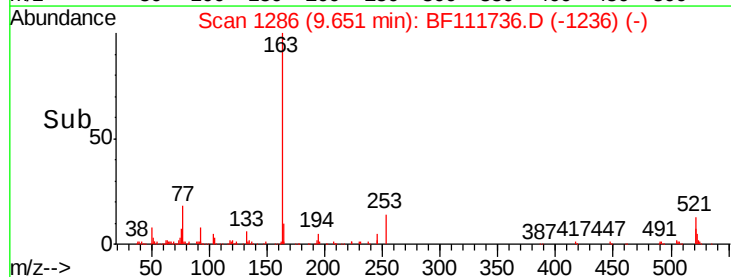
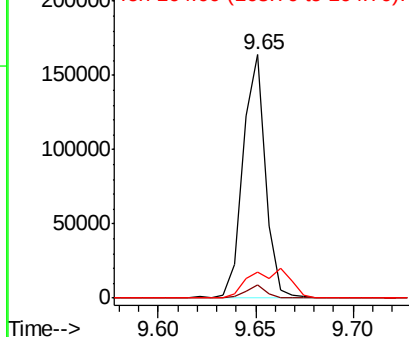


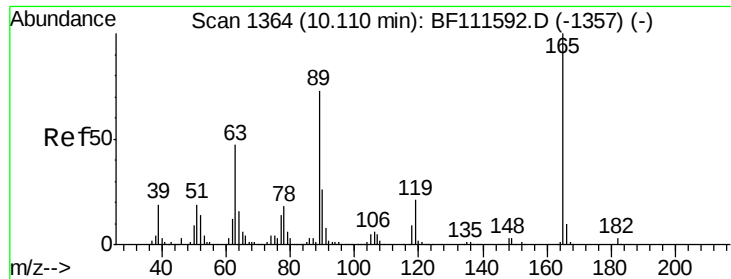
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

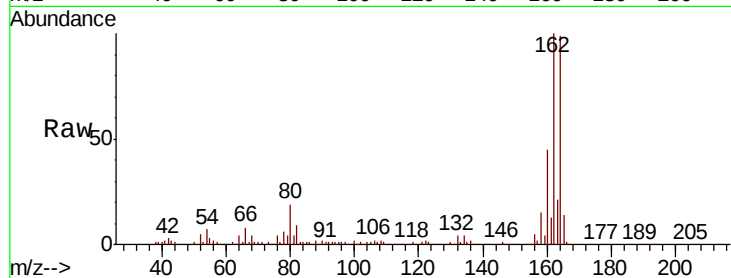




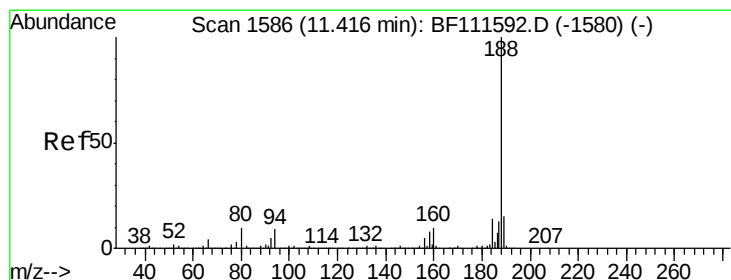
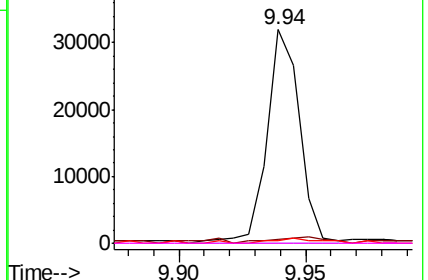
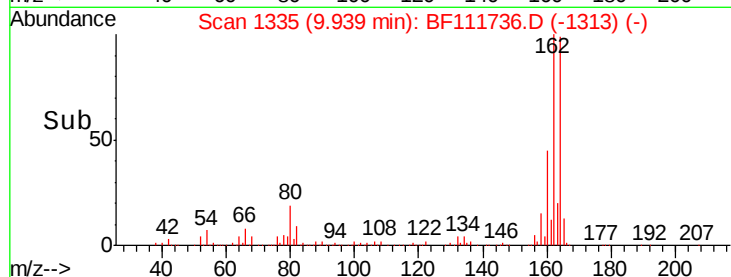
#57  
2,4-Dinitrotoluene  
Concen: 7.629 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. -0.17 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:165 Resp: 28621  
Ion Ratio Lower Upper  
165 100  
63 1.7 34.6 52.0#  
89 1.3 56.2 84.4#  
182 0.0 1.8 2.6#

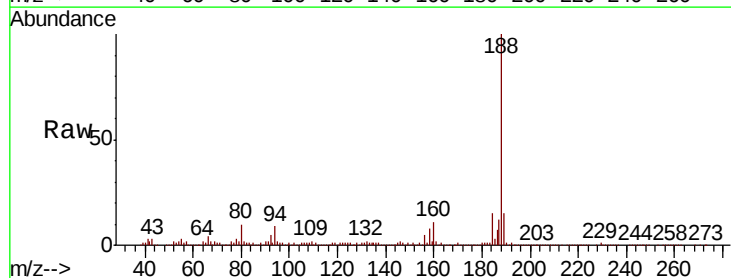


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

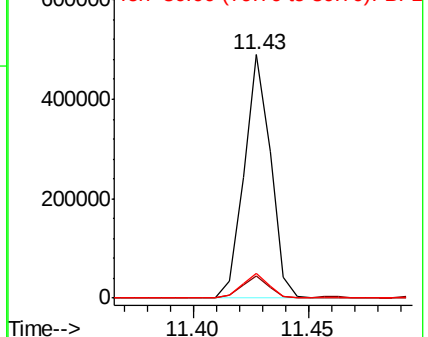
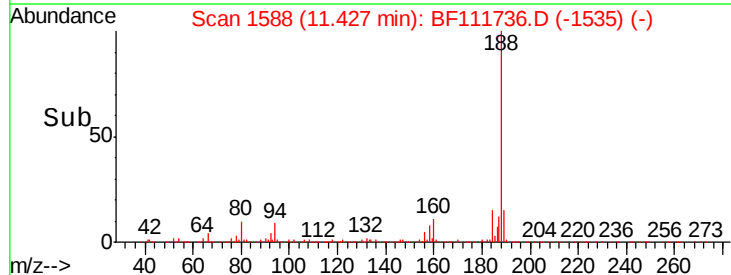


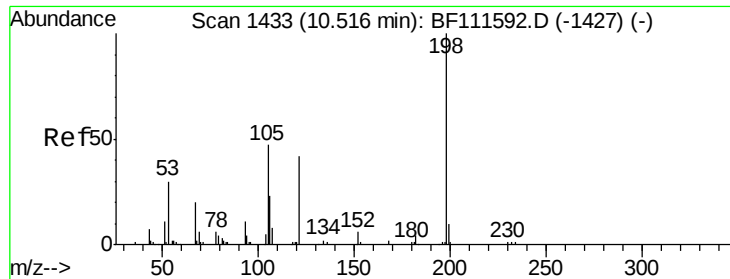
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. 0.01 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Tgt Ion:188 Resp: 391319  
Ion Ratio Lower Upper  
188 100  
94 9.3 9.6 14.4#  
80 9.9 9.8 14.6



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

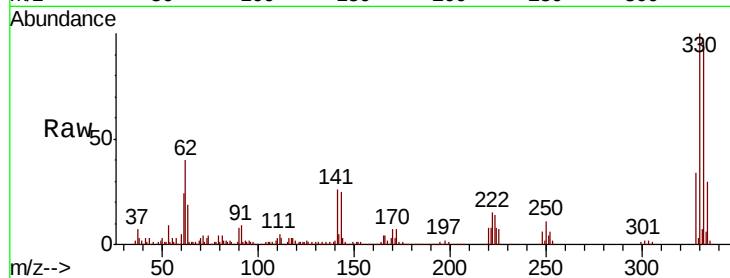




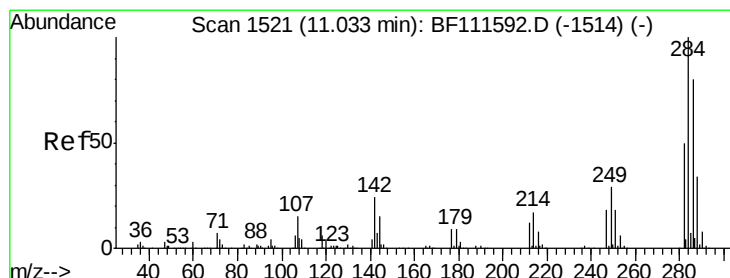
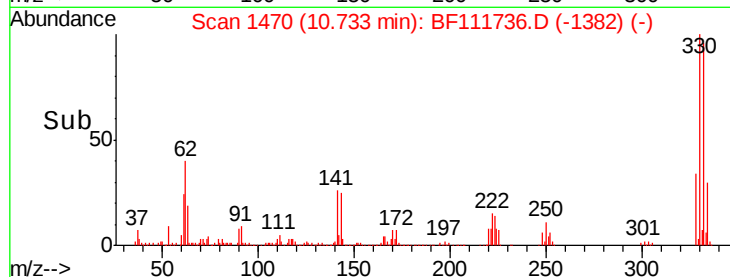
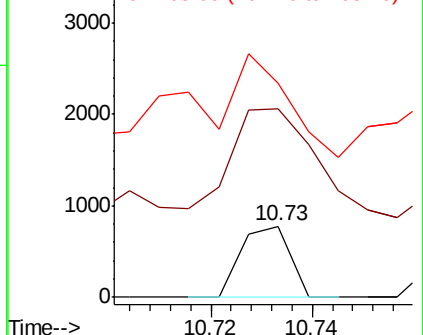
#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.969 ng  
RT: 10.73 min Scan# 1470  
Delta R.T. 0.22 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:198 Resp: 519  
Ion Ratio Lower Upper  
198 100  
51 264.3 48.0 88.0#  
105 301.4 34.0 74.0#

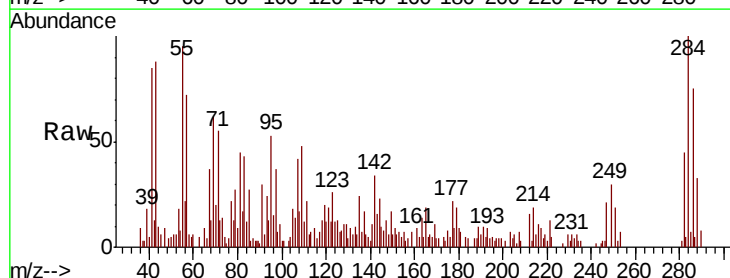


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

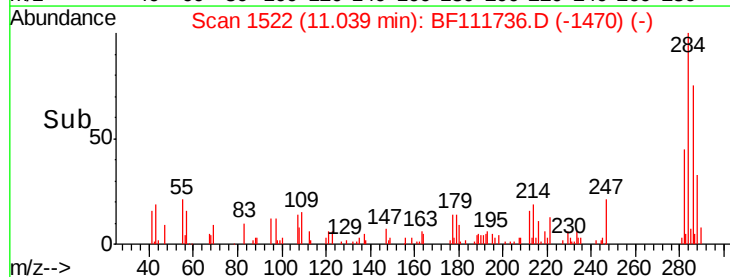
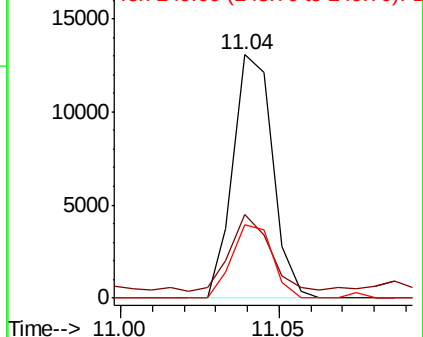


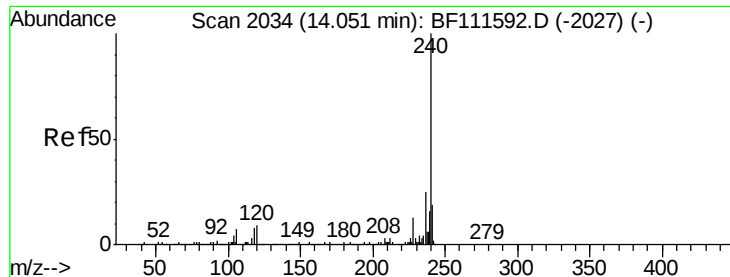
#68  
Hexachlorobenzene  
Concen: 2.091 ng  
RT: 11.04 min Scan# 1522  
Delta R.T. 0.01 min  
Lab File: BF111736.D  
Acq: 27 Dec 2018 1:35

Tgt Ion:284 Resp: 11315  
Ion Ratio Lower Upper  
284 100  
142 34.4 27.4 41.2  
249 30.2 24.4 36.6



Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

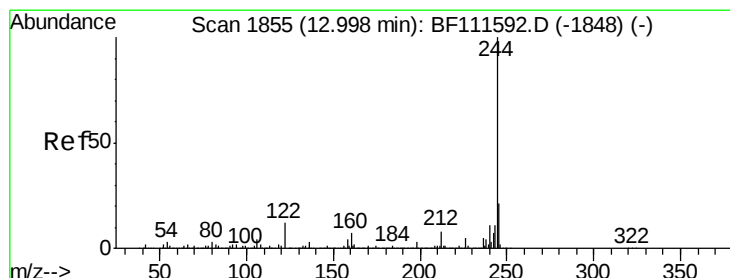
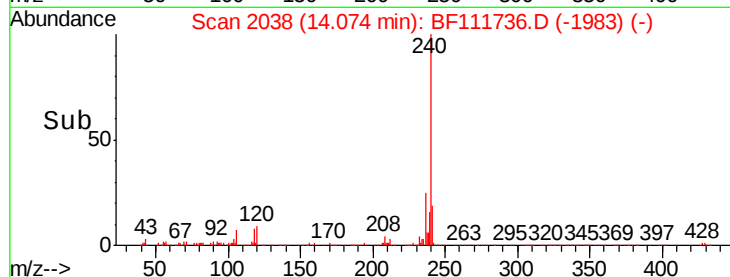
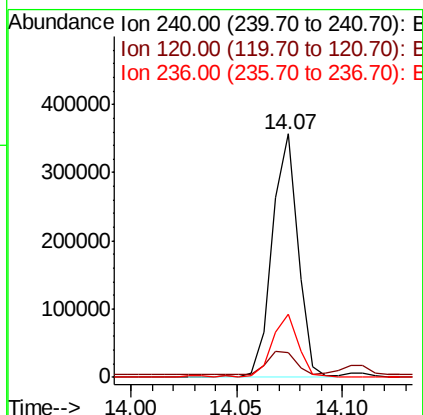
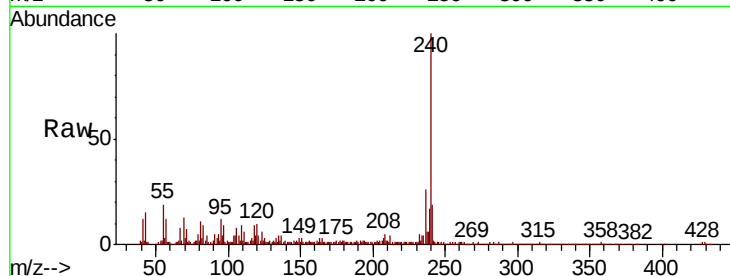




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.07 min Scan# 2038  
 Delta R.T. 0.02 min  
 Lab File: BF111736.D  
 Acq: 27 Dec 2018 1:35

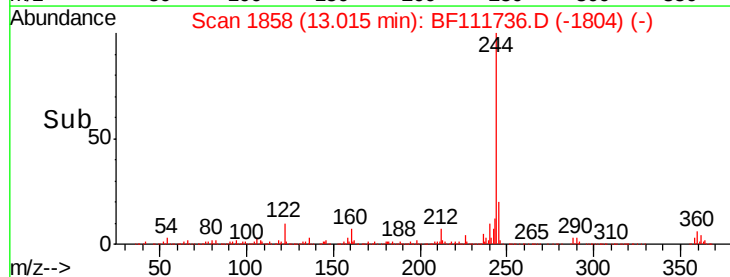
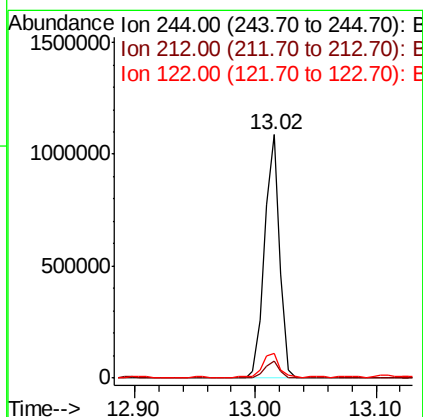
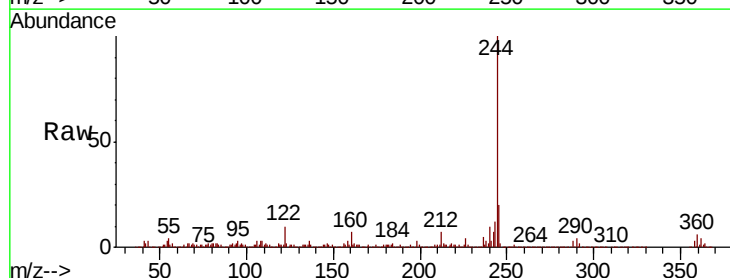
Instrument :  
 BNA\_F  
 ClientSampleId :

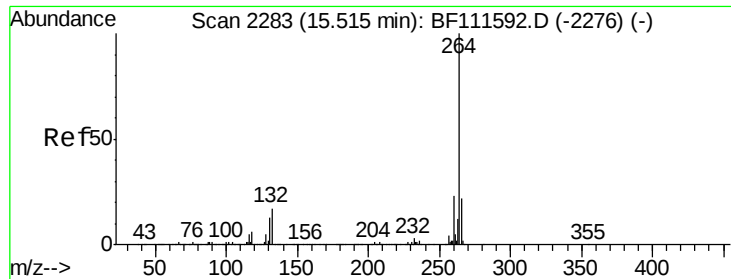
Tot Ion:240 Resp: 300969  
 Ion Ratio Lower Upper  
 240 100  
 120 10.4 12.2 18.2#  
 236 25.7 20.2 30.2



#79  
 Terphenyl-d14  
 Concen: 59.051 ng  
 RT: 13.02 min Scan# 1858  
 Delta R.T. 0.02 min  
 Lab File: BF111736.D  
 Acq: 27 Dec 2018 1:35

Tgt Ion:244 Resp: 937166  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.7 8.5  
 122 10.0 13.1 19.7#

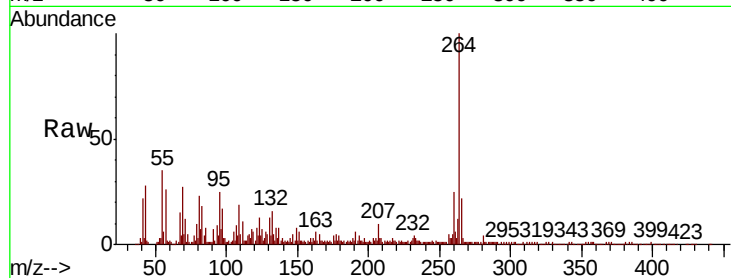




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.56 min Scan# 2291  
 Delta R.T. 0.05 min  
 Lab File: BF111736.D  
 Acq: 27 Dec 2018 1:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.0  | 18.3  | 27.5  |
| 265     | 22.0  | 17.7  | 26.5  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

